

ABSTRACT

~~Process and device for positioning an optical component between two optical fibers~~

The invention pertains to a process and to a device for positioning an optical component between two optical fibers furnished at their end with lenses (3, 4). ~~The process consists in:~~ comprising: [-] drilling a support [(6)] in such a way as to fix therein a capillary tube [(7)] whose inside diameter is designed to slip an optical fiber thereinto, [-] fixing the capillary tube [(7)] in the drilling [(8)] of the support [(6)], [-] making a blind cut [(10)] of the support [(6)] and of the capillary tube [(7)], in such a way as to separate the capillary tube [(7)] into two parts [(7a, 7b)], a first plane face [(11)] of the cut [(10)] being perpendicular to a longitudinal axis [(5)] of the capillary tube [(7)], [-] positioning the component [(12)] on the first plane face [(11)], [-] positioning an optical fiber [(1, 2)] in each of the parts [(7a, 7b)]. The device comprises a support through which is fixed a capillary tube [(7)], the support [(6)] comprising a cut [(10)] so as to separate the capillary tube [(7)] into two parts [(7a, 7b)]. The cut [(10)] comprises a first plane face [(11)] perpendicular to a longitudinal axis [(5)] of the capillary tube [(7)]. The component is positioned on the first plane face [(11)].

~~Figure 1.~~